CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.09/G/CEMENT/2014-15

Date: 21.04.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Girish**, Contractor, Bangalore.
NAME OF THE WORK	:	Construction of RCC Drain from Nanjappa circle Dwaraka Choultary to Sapthagiri Layout (KEB) office in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VP/WO/546/2013-14 Dated: 19.04.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

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21/4/14

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಸಾ., ಬೆಂಗಳೂರು-97

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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/W.No.09/G/SAND/2014-15 : 21.04.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Girish,** Contractor, Bangalore.

Name of Work : Construction of RCC Drain from Nanjappa circle Dwaraka Choultary to Sapthagiri Layout (KEB) office in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/WO/546/2013-14 Dated: 19.04.2014

Date of Testing : 21.04.2014

Material : Sand

Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	97	4.85	4.85	95.2	90-100
2.36	223	11.15	16.00	84.0	75-100
1.18	517	25.85	41.85	58.2	55-90
600 Micron	415	20.75	62.60	37.4	35-59
300 Micron	498	24.90	87.50	12.5	8-30
150 Micron	206	10.30	97.80	2.2	

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Job No.: CTCE/BBMP/W.No.09/G/AGG/2014-15 : 21.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Girish,** Contractor, Bangalore.

Name of Work : Construction of RCC Drain from Nanjappa circle Dwaraka Choultary to Sapthagiri Layout (KEB) office in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/WO/546/2013-14 Dated: 19.04.2014

Date of Testing : 21.04.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 26000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1013	3.90	3.90	96.10	95-100
20	15647	60.18	64.08	35.92	30-70
10	6328	24.34	88.42	11.58	10-35
4.75	2692	10.35	98.77	1.23	

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.09/G/STEEL/2014-15 21.04.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Girish**, Contractor, Bangalore.
Name of the work	:	Construction of RCC Drain from Nanjappa circle Dwaraka Choultary to Sapthagiri Layout (KEB) office in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VP/WO/546/2013-14 Dated: 19.04.2014
Date of Test	:	21.04.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	552	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.09/G/CUBE/2014-15

26.05.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Girish,** Contractor, Bangalore.
Name of the work	: Construction of RCC Drain from Nanjappa circle Dwaraka Choultary to Sapthagiri Layout (KEB) office in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VP/WO/546/2013-14 Dated: 19.04.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2014	26.05.2014	8.297	487.3	21.66
2	28.04.2014	26.05.2014	8.385	496.8	22.08
3	28.04.2014	26.05.2014	8.476	506.4	22.51

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Job No.: CTCE/BBMP/W.No.02/G/CUBE/2014-15

26.05.2014

TEST REPORT ON CONCRETE CUBES

Client	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Girish,** Contractor, Bangalore.
Name of the work	: Construction of RCC Drain from Nanjappa circle Dwaraka Choultry to Sapthagiri Layout (KEB) office in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VP/WO/546/2013-14 Dated: 19.04.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2014	26.05.2014	8.275	480.2	21.34
2	28.04.2014	26.05.2014	8.365	510.5	22.69
3	28.04.2014	26.05.2014	8.496	512.6	22.78

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Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2014	26.05.2014	8.180	512.3	22.77
2	28.04.2014	26.05.2014	8.267	487.6	21.67
3	28.04.2014	26.05.2014	8.395	478.9	21.28

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Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2014	26.05.2014	8.259	515.8	22.92
2	28.04.2014	26.05.2014	8.357	489.7	21.76
3	28.04.2014	26.05.2014	8.456	510.6	22.69

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Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2014	26.05.2014	8.287	513.8	22.84
2	28.04.2014	26.05.2014	8.378	495.2	22.01
3	28.04.2014	26.05.2014	8.498	488.9	21.73

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Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2014	26.05.2014	8.199	512.6	22.78
2	28.04.2014	26.05.2014	8.288	510.9	22.71
3	28.04.2014	26.05.2014	8.377	488.8	21.72

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